

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

GILL et al.

Examiner:

Unassigned

Serial No.:

10/629,535

Group Art Unit:

Unassigned

Filed:

July 29, 2003

Docket No.:

HSJ920030016US2

(HITG.054PA)

Title:

METHOD AND APPARATUS FOR ENHANCING THERMAL

STABILITY, IMPROVING BIASING AND REDUCING DAMAGE FROM

ELECTROSTATIC DISCHARGE IN SELF-PINNED ABUTTED JUNCTION HEADS HAVING A FIRST SELF-PINNED LAYER

EXTENDING UNDER THE HARD BIAS LAYERS

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence and the papers, as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on September

Kathleen McDevitt

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted either within three months of the filing date or before the first Office Action of the above-identified application. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. §1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

Please note that any notations or markings on the attached documents do not reflect particular relevance, or lack thereof, to the present application, nor were they necessarily made by anyone affiliated with the prosecution of the present application.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C.

§§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to

establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a

reference has been thoroughly reviewed or that any relevance of any portion of a reference is

intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of

M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked

as being considered and initialed by the Examiner, to the undersigned with the next official

communication.

Respectfully submitted,

Crawford Maunu PLLC 1270 Northland Drive

Suite 390

St. Paul, MN 55120

651/686-6633

Date: September ________, 2003

By:

David W. Lynch Reg. No. 36,204

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FORM 1449* SUPPLEMEN	TAL INFORMATION DISCLOSURE STATEMENT	Docket Number: Application Number: HSJ920030016US2 10/629,535			
JC &	IN AN APPLICATION	Applicant: Gill et al.			
	(Use several sheets if necessary)	Filing Date: 7/29/2003	Group Art Unit: Unassigned		

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	2002	of the Insulator Layer in NiFe/CoFe/Al ₂ O ₃ /Co Spin-Dependent Tunnel Junction," <i>Journal of Magnetism and Magnetic Materials</i> , Vol. 239, No. 1-3, pp 116-119, February 2002.						
	May 2000	Cardoso, S.; Freitas, P.P.; de Jesus, C.; and Soares, J.C., "High Thermal Stability Tunnel Junctions," <i>Journal of Applied Physics</i> , Vol. 87, No. 9, pp 6058-60, May 2000.						
	June 2001							

EXAMINER	DATE CONSIDERED			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.				